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**NORTEL**

June 4, 1996

Mr. William Caton  
Acting Secretary  
Federal Communications Commission  
1919 M Street, Room 222  
Washington, DC 20554

RECEIVED

JUN 4 1996

Federal Communications Commission  
Office of Secretary

RE: Docket Number 95-116, Ex Parte File

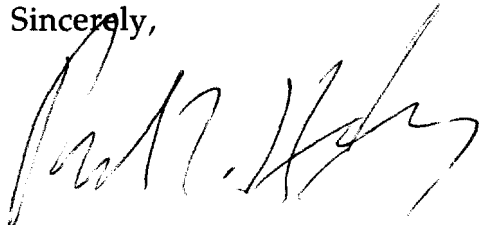
Dear Sir:

Pursuant to the Commission's rules, please be advised that on June 3, 1996, Susan Briner, Lou Pino, Dan Stone and the undersigned all of Northern Telecom (Nortel) met with Mindy Littell, Carol Matthey, Susan McMaster, and Jeannie Su members of the Commission's Common Carrier Bureau to discuss local number portability, the subject of the referenced FCC proceeding.

The discussion was based on the enclosed presentation which was provided to the FCC staff members who attended the meeting.

If you have any questions, please call me.

Sincerely,



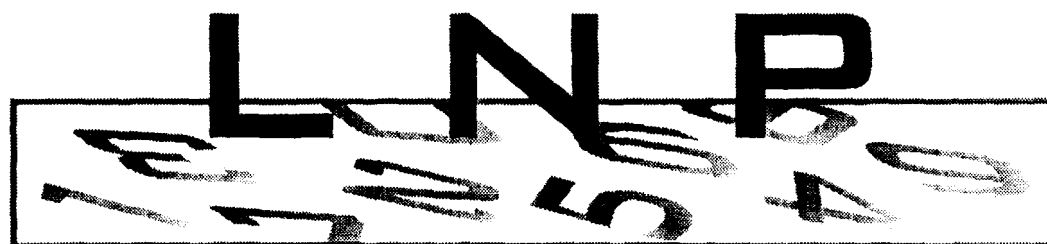
Raymond L. Strassburger  
Director, Government Relations - Telecommunications Policy

RLS/gj  
Enclosure

cc: FCC: Mindy Littell, Carol Matthey, Susan McMaster, and Jeannie Su

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LIST ABCDE

041



LOCAL NUMBER  
PORTABILITY

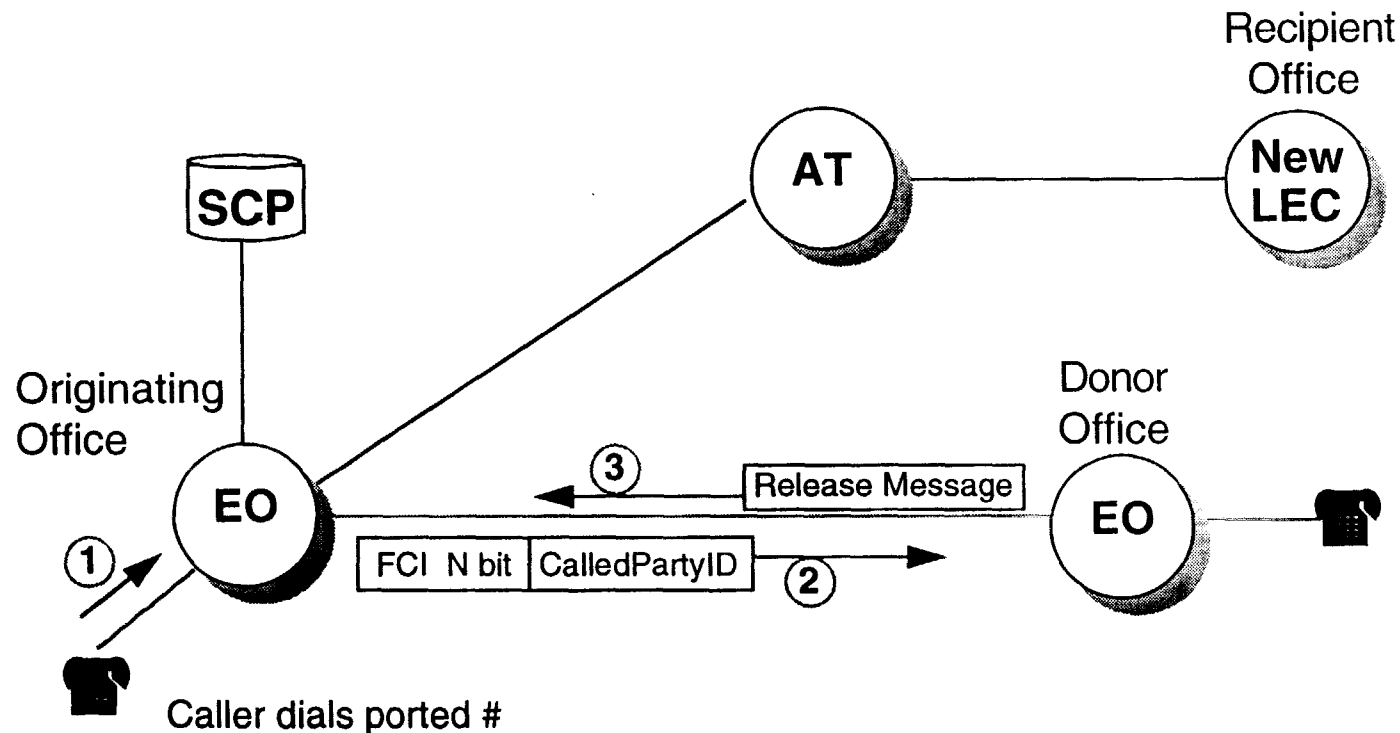
Discussion on C.C. Docket 95-116  
June 3, 1996

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- **Nortel has proposed a variety of technical solutions for LNP**
    - worked closely with our customers and regulatory task forces
  - **Nortel supports convergence on LRN as the long-term LNP routing method**
    - LRN roll out committed on Nortel products to support 1997 roll out
  - **Nortel supports Query on Release (QoR) triggering option for use with LRN to provide for network efficiencies where required**
  - **Nortel has actively participated in industry forums**
    - INC, ICCF, T1S1
    - Regulatory Task Forces: Illinois, Georgia, Maryland, California, Canada, etc...
-

- **Support AIN LRN functionality**
  - DMS 100/200            2Q97
  - DMS 10                3Q97
  
- **Offer 'Query on Release' as an option, for use with AIN LRN, to reduce service provider startup infrastructure costs**
  - DMS 100/200            2Q97
  - DMS 10                4Q97

# LRN with QoR call flow



- Originating office looks forward to the donor office to see whether called number still exists at that location
- If number has been ported, appropriate SS7 release cause message is returned, and query is then launched. Call is routed to the recipient office

## *Query on Release Status*

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- Nortel has made QoR specifications publicly available, including placement on the Nortel web page
  - Nortel is continuing to act as editor of QoR specifications until QoR is incorporated into “industry” requirements
    - LRN spec editor plans to incorporate in ICC specifications
  - **ANSI T1S1.3 developing both QoR and LRN standards**
    - Voting is expected in June 1996
  - **Bellcore requirements being developed based on existing LRN and QoR specifications**
    - Broad industry participation: LECs, CLECs, vendors
    - This process will not delay the ability to deploy LNP with LRN and QoR based on current specifications
-

- QoR can be enabled or disabled on a per NPA-NXX basis.
- Service provider may choose to support QoR as an intranetwork option or an internetwork option
- Use of QoR within a network or portion of a network does not preclude other carriers from deploying LRN with or without the use of QoR
  - QoR 'release' capability being packaged by Nortel as part of LRN thus enabling donor networks to 'release' even though they do not use QoR within their network

# *Differences in Post Dial Delay (PDD)*

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- **Current estimates for the PDD difference for calls to non-portable numbers versus calls to portable numbers:**

- interswitch
- internetwork
- intraLATA



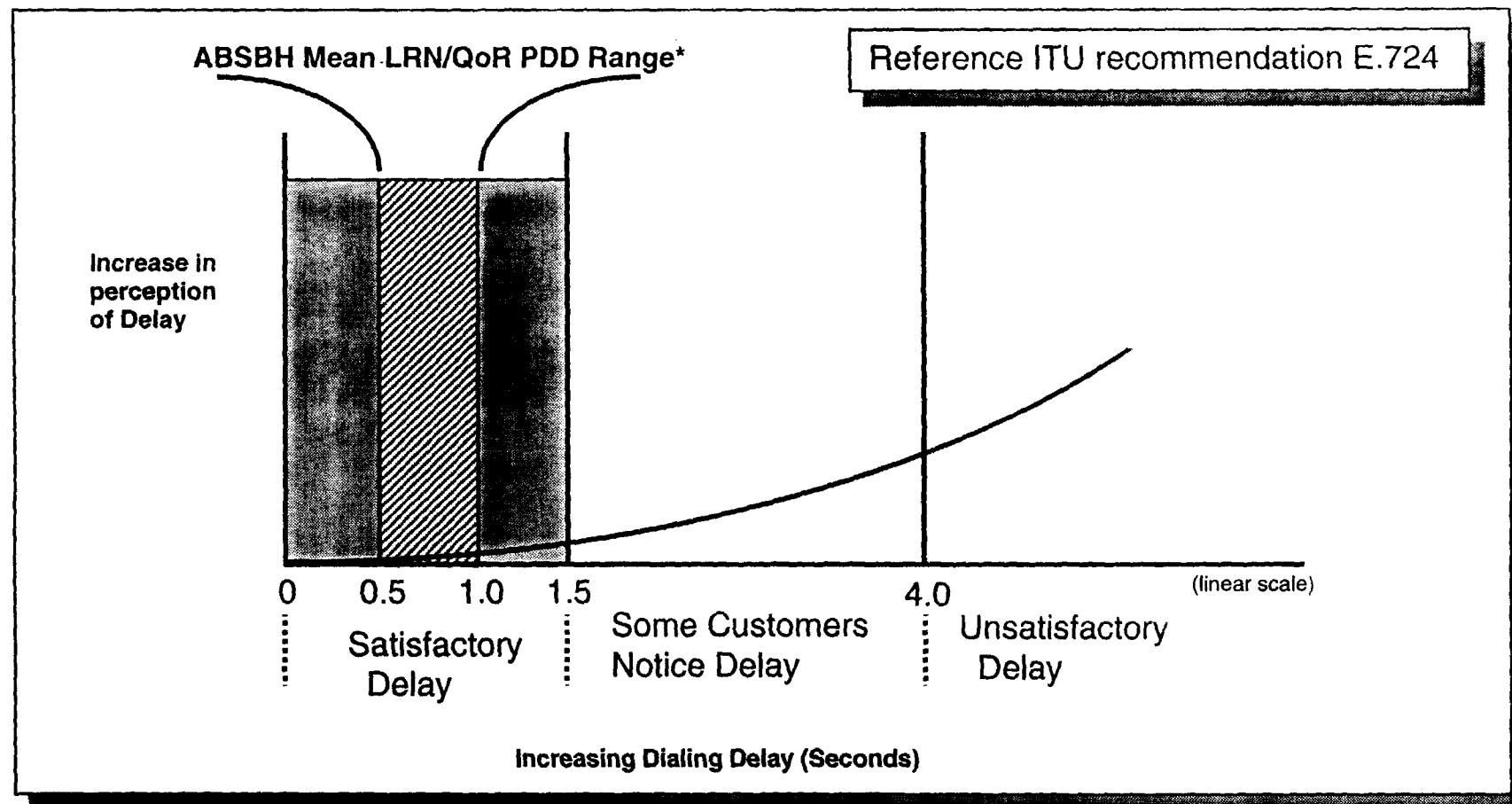
< 1 sec (mean\*)

\* Average Busy Season Busy Hour

- **Many PDD differences between calls to portable versus non-portable numbers will exist in an LNP environment independent of the existence of QoR**
  - interswitch vs. intraswitch
  - tandem routing vs. direct trunking
  - MF vs. SS7 etc.
  - Non conforming LNP switches



# Post Dial Delay (PDD)



\*Nortel estimate based on projected DMS-100 contribution and industry supplied estimates for non-Nortel network elements

- **911 Handling**

- LRN with or without QoR does not query for 911 calls
- QoR will not apply to callbacks from 911 tandem

- **Interoperability**

- QoR can be set up as an intra-network or inter-network capability
- QoR intra-network does not affect external networks
- Inter-network QoR arrangements require carrier business agreements
- MF signalling can be accommodated via network arrangements and provisioning

- **QoR minimizes LNP queries thereby reducing network resource requirements for:**
    - Switch Real Time
    - SCP Real Time
    - SS7 link capacity (SSP-to-STP & STP-to-SCP)
    - STP Real Time
    - STP Port Capacity
  - **QoR has the potential for significant reduction in start up and operation costs for LNP, particularly in low penetration areas of ported numbers**
  - **QoR allows growth of queries to match growth of ported numbers**
-

- **Utilize existing technical requirements and State-level framework agreements to establish a common, national basis for LNP**
    - key to ensuring minimum industry costs and time to deploy
  - **Consider allowing service providers to utilize options, such as QoR, to:**
    - enable cost containment
    - improve network efficiencies
  - **Rely on existing industry forums to develop detailed technical solutions for LNP**
    - service provider number portability
    - location (geographic) number portability
    - wireless integration
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